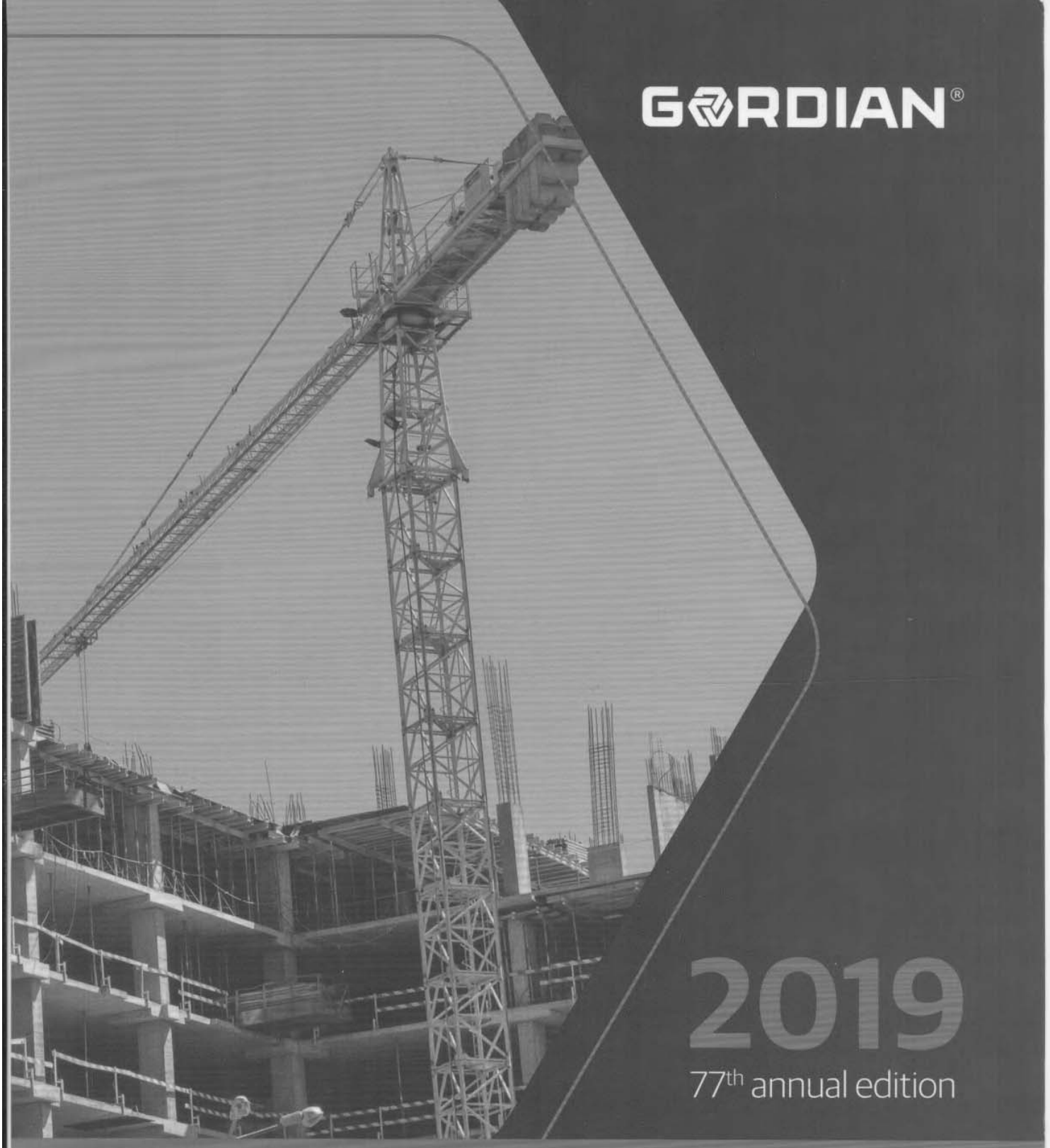

GORDIAN®

2019

77th annual edition

Building Construction Costs
with RSMeans data

Estimating Tips

07 10 00 Dampproofing and Waterproofing

- Be sure of the job specifications before pricing this subdivision. The difference in cost between waterproofing and dampproofing can be great. Waterproofing will hold back standing water. Dampproofing prevents the transmission of water vapor. Also included in this section are vapor retarding membranes.

07 20 00 Thermal Protection

- Insulation and fireproofing products are measured by area, thickness, volume, or R-value. Specifications may give only what the specific R-value should be in a certain situation. The estimator may need to choose the type of insulation to meet that R-value.

07 30 00 Steep Slope Roofing
07 40 00 Roofing and Siding Panels

- Many roofing and siding products are bought and sold by the square. One square is equal to an area that measures 100 square feet.

  This simple change in unit of measure could create a large error if the estimator is not observant. Accessories necessary for a complete installation must be figured into any calculations for both material and labor.

07 50 00 Membrane Roofing
07 60 00 Flashing and Sheet Metal
07 70 00 Roofing and Wall Specialties and Accessories

- The items in these subdivisions compose a roofing system. No one component completes the installation, and all must be estimated. Built-up or single-ply membrane roofing systems are made up of many products and installation trades. Wood blocking at roof perimeters or penetrations, parapet coverings, reglets, roof drains, gutters, downspouts, sheet metal flashing, skylights, smoke vents, and roof hatches all need to be considered along with the roofing material. Several different installation trades will need to work together on the roofing system. Inherent difficulties in the scheduling and coordination of various trades must be accounted for when estimating labor costs.

07 90 00 Joint Protection

- To complete the weather-tight shell, the sealants and caulkings must be estimated. Where different materials meet—at expansion joints, at flashing penetrations, and at hundreds of other locations throughout a construction project—caulking and sealants provide another line of defense against water penetration. Often, an entire system is based on the proper location and placement of caulking or sealants. The detailed drawings that are included as part of a set of architectural plans show typical locations for these materials. When caulking or sealants are shown at typical locations, this means the estimator must include them for all the locations where this detail is applicable. Be careful to keep different types of sealants separate, and remember to consider backer rods and primers if necessary.

Reference Numbers

Reference numbers are shown at the beginning of some major classifications. These numbers refer to related items in the Reference Section. The reference information may be an estimating procedure, an alternate pricing method, or technical information.

Note: Not all subdivisions listed here necessarily appear. ■

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07 05 Common Work Results for Thermal and Moisture Protection

07 05 05 – Selective Demolition for Thermal and Moisture Protection

	07 05 05.10 Selective Demo., Thermal and Moist. Protection	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
5670	Textured plywood	1 Clab	725	.011	S.F.		.45		.45	.69
5720	Vinyl siding		510	.016			.64		.64	.97
5770	Corner strips		900	.009	L.F.		.36		.36	.55
5870	Wood, boards, vertical		400	.020	S.F.		.82		.82	1.24
5880	Steel siding, corrugated/ribbed		402.50	.020	"		.82		.82	1.23
5920	Waterproofing, protection/drain board	2 Clab	3900	.004	B.F.		.17		.17	.25
5970	Over 1/2" thick		1750	.009	S.F.		.38		.38	.57
6020	To 1/2" thick		2000	.008	"		.33		.33	.50

07 11 Dampproofing

07 11 13 – Bituminous Dampproofing

07 11 13.10 Bituminous Asphalt Coating

0010	**BITUMINOUS ASPHALT COATING**									
0030	Brushed on, below grade, 1 coat	1 Rofc	665	.012	S.F.	.23	.54		.77	1.15
0100	2 coat		500	.016		.45	.72		1.17	1.70
0300	Sprayed on, below grade, 1 coat		830	.010		.23	.43		.66	.97
0400	2 coat		500	.016		.44	.72		1.16	1.69
0500	Asphalt coating, with fibers				Gal.	9.15			9.15	10.05
0600	Troweled on, asphalt with fibers, 1/16" thick	1 Rofc	500	.016	S.F.	.40	.72		1.12	1.64
0700	1/8" thick		400	.020		.70	.90		1.60	2.27
1000	1/2" thick		350	.023		2.29	1.03		3.32	4.23

07 11 16 – Cementitious Dampproofing

07 11 16.20 Cementitious Parging

0010	**CEMENTITIOUS PARGING**									
0020	Portland cement, 2 coats, 1/2" thick	D-1	250	.064	S.F.	.39	2.93		3.32	4.90
0100	Waterproofed Portland cement, 1/2" thick, 2 coats	"	250	.064	"	6.55	2.93		9.48	11.65

07 12 Built-up Bituminous Waterproofing

07 12 13 – Built-Up Asphalt Waterproofing

07 12 13.20 Membrane Waterproofing

0010	**MEMBRANE WATERPROOFING**									
0012	On slabs, 1 ply, felt, mopped	G-1	3000	.019	S.F.	.43	.79	.17	1.39	1.98
0100	On slabs, 1 ply, glass fiber fabric, mopped		2100	.027		.48	1.12	.24	1.84	2.67
0300	On slabs, 2 ply, felt, mopped		2500	.022		.87	.94	.21	2.02	2.75
0400	On slabs, 2 ply, glass fiber fabric, mopped		1650	.034		1.05	1.43	.31	2.79	3.88
0600	On slabs, 3 ply, felt, mopped		2100	.027		1.30	1.12	.24	2.66	3.57
0700	On slabs, 3 ply, glass fiber fabric, mopped		1550	.036		1.44	1.52	.33	3.29	4.48
0710	Asphaltic hardboard protection board, 1/8" thick	2 Rofc	500	.032		.72	1.44		2.16	3.19
1000	EPS membrane protection board, 1/4" thick		3500	.005		.34	.21		.55	.71
1050	3/8" thick		3500	.005		.37	.21		.58	.75
1060	1/2" thick		3500	.005		.41	.21		.62	.79
1070	Fiberglass fabric, black, 20/10 mesh		116	.138	Sq.	14.95	6.20		21.15	27

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07 13 Sheet Waterproofing

07 13 53 – Elastomeric Sheet Waterproofing

	07 13 53.10 Elastomeric Sheet Waterproofing and Access.	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**ELASTOMERIC SHEET WATERPROOFING AND ACCESS.**									
0090	EPDM, plain, 45 mils thick	2 Rofc	580	.028	S.F.	1.48	1.24		2.72	3.70
0100	60 mils thick		570	.028		1.61	1.26		2.87	3.88
0300	Nylon reinforced sheets, 45 mils thick		580	.028		1.68	1.24		2.92	3.92
0400	60 mils thick		570	.028		1.70	1.26		2.96	3.97
0600	Vulcanizing splicing tape for above, 2" wide				C.L.F.	63			63	69.50
0700	4" wide				"	124			124	136
0900	Adhesive, bonding, 60 S.F./gal.				Gal.	27			27	29.50
1000	Splicing, 75 S.F./gal.				"	37.50			37.50	41.50
1200	Neoprene sheets, plain, 45 mils thick	2 Rofc	580	.028	S.F.	2.08	1.24		3.32	4.36
1300	60 mils thick		570	.028		2.27	1.26		3.53	4.61
1500	Nylon reinforced, 45 mils thick		580	.028		2.15	1.24		3.39	4.44
1600	60 mils thick		570	.028		2.81	1.26		4.07	5.20
1800	120 mils thick		500	.032		5.60	1.44		7.04	8.55
1900	Adhesive, splicing, 150 S.F./gal. per coat				Gal.	37.50			37.50	41.50
2100	Fiberglass reinforced, fluid applied, 1/8" thick	2 Rofc	500	.032	S.F.	1.71	1.44		3.15	4.28
2200	Polyethylene and rubberized asphalt sheets, 60 mils thick		550	.029		.95	1.31		2.26	3.23
2400	Polyvinyl chloride sheets, plain, 10 mils thick		580	.028		.15	1.24		1.39	2.24
2500	20 mils thick		570	.028		.20	1.26		1.46	2.33
2700	30 mils thick		560	.029		.25	1.29		1.54	2.42
3000	Adhesives, trowel grade, 40-100 S.F./gal.				Gal.	23			23	25.50
3100	Brush grade, 100-250 S.F./gal.				"	21			21	23
3300	Bitumen modified polyurethane, fluid applied, 55 mils thick	2 Rofc	665	.024	S.F.	1.02	1.08		2.10	2.93

07 16 Cementitious and Reactive Waterproofing

07 16 16 – Crystalline Waterproofing

07 16 16.20 Cementitious Waterproofing

0010	**CEMENTITIOUS WATERPROOFING**									
0020	1/8" application, sprayed on	G-2A	1000	.024	S.F.	.68	.96	.62	2.26	2.98
0050	4 coat cementitious metallic slurry	1 Cefi	1.20	6.667	C.S.F.	67	325		392	555

07 17 Bentonite Waterproofing

07 17 13 – Bentonite Panel Waterproofing

07 17 13.10 Bentonite

0010	**BENTONITE**									
0020	Panels, 4' x 4', 3/16" thick	1 Rofc	625	.013	S.F.	1.77	.58		2.35	2.91
0100	Rolls, 3/8" thick, with geotextile fabric both sides	"	550	.015	"	1.80	.66		2.46	3.07
0300	Granular bentonite, 50 lb. bags (.625 C.F.)				Bag	16.55			16.55	18.20
0400	3/8" thick, troweled on	1 Rofc	475	.017	S.F.	.83	.76		1.59	2.17
0500	Drain board, expanded polystyrene, 1-1/2" thick	1 Rohe	1600	.005		.41	.17		.58	.73
0510	2" thick		1600	.005		.54	.17		.71	.87
0520	3" thick		1600	.005		.81	.17		.98	1.17
0530	4" thick		1600	.005		1.08	.17		1.25	1.47
0600	With filter fabric, 1-1/2" thick		1600	.005		.47	.17		.64	.80
0625	2" thick		1600	.005		.60	.17		.77	.94
0650	3" thick		1600	.005		.87	.17		1.04	1.24
0675	4" thick		1600	.005		1.14	.17		1.31	1.54

07 19 Water Repellents

07 19 19 – Silicone Water Repellents

	07 19 19.10 Silicone Based Water Repellents		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**SILICONE BASED WATER REPELLENTS**										
0020	Water base liquid, roller applied		2 Rofc	7000	.002	S.F.	.42	.10		.52	.64
0200	Silicone or stearate, sprayed on CMU, 1 coat		1 Rofc	4000	.002		.40	.09		.49	.59
0300	2 coats		"	3000	.003		.80	.12		.92	1.08

07 21 Thermal Insulation

07 21 13 – Board Insulation

07 21 13.10 Rigid Insulation

0010	**RIGID INSULATION**, for walls										
0040	Fiberglass, 1.5#/C.F., unfaced, 1" thick, R4.1	G	1 Carp	1000	.008	S.F.	.34	.41		.75	1
0060	1-1/2" thick, R6.2	G		1000	.008		.40	.41		.81	1.07
0080	2" thick, R8.3	G		1000	.008		.50	.41		.91	1.18
0120	3" thick, R12.4	G		800	.010		.60	.52		1.12	1.44
0370	3#/C.F., unfaced, 1" thick, R4.3	G		1000	.008		.56	.41		.97	1.25
0390	1-1/2" thick, R6.5	G		1000	.008		.80	.41		1.21	1.51
0400	2" thick, R8.7	G		890	.009		1.07	.46		1.53	1.88
0420	2-1/2" thick, R10.9	G		800	.010		1.11	.52		1.63	2
0440	3" thick, R13	G		800	.010		1.63	.52		2.15	2.57
0520	Foil faced, 1" thick, R4.3	G		1000	.008		.84	.41		1.25	1.55
0540	1-1/2" thick, R6.5	G		1000	.008		1.25	.41		1.66	2.01
0560	2" thick, R8.7	G		890	.009		1.58	.46		2.04	2.44
0580	2-1/2" thick, R10.9	G		800	.010		1.86	.52		2.38	2.83
0600	3" thick, R13	G		800	.010		2.09	.52		2.61	3.08
1600	Isocyanurate, 4' x 8' sheet, foil faced, both sides										
1610	1/2" thick	G	1 Carp	800	.010	S.F.	.31	.52		.83	1.12
1620	5/8" thick	G		800	.010		.55	.52		1.07	1.39
1630	3/4" thick	G		800	.010		.46	.52		.98	1.29
1640	1" thick	G		800	.010		.61	.52		1.13	1.45
1650	1-1/2" thick	G		730	.011		.67	.57		1.24	1.60
1660	2" thick	G		730	.011		.90	.57		1.47	1.85
1670	3" thick	G		730	.011		2.84	.57		3.41	3.98
1680	4" thick	G		730	.011		2.56	.57		3.13	3.68
1700	Perlite, 1" thick, R2.77	G		800	.010		.48	.52		1	1.31
1750	2" thick, R5.55	G		730	.011		.78	.57		1.35	1.72
1900	Extruded polystyrene, 25 psi compressive strength, 1" thick, R5	G		800	.010		.56	.52		1.08	1.40
1940	2" thick, R10	G		730	.011		1.12	.57		1.69	2.09
1960	3" thick, R15	G		730	.011		1.61	.57		2.18	2.63
2100	Expanded polystyrene, 1" thick, R3.85	G		800	.010		.27	.52		.79	1.08
2120	2" thick, R7.69	G		730	.011		.54	.57		1.11	1.45
2140	3" thick, R11.49	G		730	.011		.81	.57		1.38	1.75

07 21 13.13 Foam Board Insulation

0010	**FOAM BOARD INSULATION**										
0600	Polystyrene, expanded, 1" thick, R4	G	1 Carp	680	.012	S.F.	.27	.61		.88	1.22
0700	2" thick, R8	G	"	675	.012	"	.54	.61		1.15	1.52

07 21 16 – Blanket Insulation

07 21 16.10 Blanket Insulation for Floors/Ceilings

0010	**BLANKET INSULATION FOR FLOORS/CEILINGS**										
0020	Including spring type wire fasteners										
2000	Fiberglass, blankets or batts, paper or foil backing										
2100	3-1/2" thick, R13	G	1 Carp	700	.011	S.F.	.41	.59		1	1.34

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	07 21 16.10 Blanket Insulation for Floors/Ceilings		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
2150	6-1/4" thick, R19	G	1 Carp	600	.013	S.F.	.50	.69		1.19	1.59
2210	9-1/2" thick, R30	G		500	.016		.73	.83		1.56	2.05
2220	12" thick, R38	G		475	.017		1.06	.87		1.93	2.49
3000	Unfaced, 3-1/2" thick, R13	G		600	.013		.33	.69		1.02	1.40
3010	6-1/4" thick, R19	G		500	.016		.39	.83		1.22	1.68
3020	9-1/2" thick, R30	G		450	.018		.61	.92		1.53	2.06
3030	12" thick, R38	G		425	.019		.74	.97		1.71	2.28
	07 21 16.20 Blanket Insulation for Walls										
0010	**BLANKET INSULATION FOR WALLS**										
0020	Kraft faced fiberglass, 3-1/2" thick, R11, 15" wide	G	1 Carp	1350	.006	S.F.	.30	.31		.61	.79
0030	23" wide	G		1600	.005		.30	.26		.56	.72
0060	R13, 11" wide	G		1150	.007		.34	.36		.70	.91
0080	15" wide	G		1350	.006		.34	.31		.65	.83
0100	23" wide	G		1600	.005		.34	.26		.60	.76
0110	R15, 11" wide	G		1150	.007		.53	.36		.89	1.12
0120	15" wide	G		1350	.006		.53	.31		.84	1.04
0130	23" wide	G		1600	.005		.53	.26		.79	.97
0140	6" thick, R19, 11" wide	G		1150	.007		.43	.36		.79	1.01
0160	15" wide	G		1350	.006		.43	.31		.74	.93
0180	23" wide	G		1600	.005		.43	.26		.69	.86
0182	R21, 11" wide	G		1150	.007		.66	.36		1.02	1.27
0184	15" wide	G		1350	.006		.66	.31		.97	1.19
0186	23" wide	G		1600	.005		.66	.26		.92	1.12
0188	9" thick, R30, 11" wide	G		985	.008		.73	.42		1.15	1.43
0200	15" wide	G		1150	.007		.73	.36		1.09	1.34
0220	23" wide	G		1350	.006		.73	.31		1.04	1.26
0230	12" thick, R38, 11" wide	G		985	.008		1.06	.42		1.48	1.80
0240	15" wide	G		1150	.007		1.06	.36		1.42	1.71
0260	23" wide	G		1350	.006		1.06	.31		1.37	1.63
0410	Foil faced fiberglass, 3-1/2" thick, R13, 11" wide	G		1150	.007		.47	.36		.83	1.06
0420	15" wide	G		1350	.006		.47	.31		.78	.98
0440	23" wide	G		1600	.005		.47	.26		.73	.91
0442	R15, 11" wide	G		1150	.007		.48	.36		.84	1.07
0444	15" wide	G		1350	.006		.48	.31		.79	.99
0446	23" wide	G		1600	.005		.48	.26		.74	.92
0448	6" thick, R19, 11" wide	G		1150	.007		.61	.36		.97	1.21
0460	15" wide	G		1350	.006		.61	.31		.92	1.13
0480	23" wide	G		1600	.005		.61	.26		.87	1.06
0482	R21, 11" wide	G		1150	.007		.64	.36		1	1.24
0484	15" wide	G		1350	.006		.64	.31		.95	1.16
0486	23" wide	G		1600	.005		.64	.26		.90	1.09
0488	9" thick, R30, 11" wide	G		985	.008		.93	.42		1.35	1.65
0500	15" wide	G		1150	.007		.93	.36		1.29	1.56
0550	23" wide	G		1350	.006		.93	.31		1.24	1.48
0560	12" thick, R38, 11" wide	G		985	.008		1.16	.42		1.58	1.91
0570	15" wide	G		1150	.007		1.16	.36		1.52	1.82
0580	23" wide	G		1350	.006		1.16	.31		1.47	1.74
0620	Unfaced fiberglass, 3-1/2" thick, R13, 11" wide	G		1150	.007		.33	.36		.69	.90
0820	15" wide	G		1350	.006		.33	.31		.64	.82
0830	23" wide	G		1600	.005		.33	.26		.59	.75
0832	R15, 11" wide	G		1150	.007		.46	.36		.82	1.05
0834	15" wide	G		1350	.006		.46	.31		.77	.97

07 21 Thermal Insulation

07 21 16 – Blanket Insulation

	07 21 16.20 Blanket Insulation for Walls		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0836	23" wide	G	1 Carp	1600	.005	S.F.	.46	.26		.72	.90
0838	6" thick, R19, 11" wide	G		1150	.007		.39	.36		.75	.97
0860	15" wide	G		1150	.007		.39	.36		.75	.97
0880	23" wide	G		1350	.006		.39	.31		.70	.89
0882	R21, 11" wide	G		1150	.007		.68	.36		1.04	1.29
0886	15" wide	G		1350	.006		.68	.31		.99	1.21
0888	23" wide	G		1600	.005		.68	.26		.94	1.14
0890	9" thick, R30, 11" wide	G		985	.008		.61	.42		1.03	1.30
0900	15" wide	G		1150	.007		.61	.36		.97	1.21
0920	23" wide	G		1350	.006		.61	.31		.92	1.13
0930	12" thick, R38, 11" wide	G		985	.008		.74	.42		1.16	1.44
0940	15" wide	G		1000	.008		.74	.41		1.15	1.44
0960	23" wide	G		1150	.007		.74	.36		1.10	1.35
1300	Wall or ceiling insulation, mineral wool batts										
1320	3-1/2" thick, R15	G	1 Carp	1600	.005	S.F.	.79	.26		1.05	1.26
1340	5-1/2" thick, R23	G		1600	.005		1.24	.26		1.50	1.76
1380	7-1/4" thick, R30	G		1350	.006		1.64	.31		1.95	2.26
1700	Non-rigid insul., recycled blue cotton fiber, unfaced batts, R13, 16" wide	G		1600	.005		1.10	.26		1.36	1.60
1710	R19, 16" wide	G		1600	.005		1.35	.26		1.61	1.88
1850	Friction fit wire insulation supports, 16" OC			960	.008	Ea.	.07	.43		.50	.73

07 21 19 – Foamed In Place Insulation

07 21 19.10 Masonry Foamed In Place Insulation

0010	**MASONRY FOAMED IN PLACE INSULATION**										
0100	Amino-plast foam, injected into block core, 6" block	G	G-2A	6000	.004	Ea.	.17	.16	.10	.43	.56
0110	8" block	G		5000	.005		.20	.19	.12	.51	.67
0120	10" block	G		4000	.006		.25	.24	.16	.65	.84
0130	12" block	G		3000	.008		.34	.32	.21	.87	1.13
0140	Injected into cavity wall	G		13000	.002	B.F.	.06	.07	.05	.18	.24
0150	Preparation, drill holes into mortar joint every 4 V.L.F., 5/8" diameter		1 Clab	960	.008	Ea.		.34		.34	.52
0160	7/8" diameter			680	.012			.48		.48	.73
0170	Patch drilled holes, 5/8" diameter			1800	.004		.04	.18		.22	.32
0180	7/8" diameter			1200	.007		.05	.27		.32	.46

07 21 23 – Loose-Fill Insulation

07 21 23.10 Poured Loose-Fill Insulation

0010	**POURED LOOSE-FILL INSULATION**										
0020	Cellulose fiber, R3.8 per inch	G	1 Carp	200	.040	C.F.	.70	2.07		2.77	3.90
0021	4" thick	G		1000	.008	S.F.	.17	.41		.58	.81
0022	6" thick	G		800	.010	"	.28	.52		.80	1.09
0080	Fiberglass wool, R4 per inch	G		200	.040	C.F.	.70	2.07		2.77	3.90
0081	4" thick	G		600	.013	S.F.	.24	.69		.93	1.30
0082	6" thick	G		400	.020	"	.34	1.03		1.37	1.93
0100	Mineral wool, R3 per inch	G		200	.040	C.F.	.53	2.07		2.60	3.71
0101	4" thick	G		600	.013	S.F.	.17	.69		.86	1.23
0102	6" thick	G		400	.020	"	.27	1.03		1.30	1.85
0300	Polystyrene, R4 per inch	G		200	.040	C.F.	1.51	2.07		3.58	4.79
0301	4" thick	G		600	.013	S.F.	.50	.69		1.19	1.59
0302	6" thick	G		400	.020	"	.76	1.03		1.79	2.39
0400	Perlite, R2.78 per inch	G		200	.040	C.F.	5.30	2.07		7.37	9
0401	4" thick	G		1000	.008	S.F.	1.77	.41		2.18	2.58
0402	6" thick	G		800	.010	"	2.66	.52		3.18	3.71

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07 22 16.10 Roof Deck Insulation		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**ROOF DECK INSULATION**, fastening excluded									
0016	Asphaltic cover board, fiberglass lined, 1/8" thick	1 Rofc	1400	.006	S.F.	.48	.26		.74	.96
0018	1/4" thick		1400	.006		.97	.26		1.23	1.50
0020	Fiberboard low density, 1/2" thick, R1.39 G		1300	.006		.35	.28		.63	.85
0030	1" thick, R2.78 G		1040	.008		.59	.35		.94	1.23
0080	1-1/2" thick, R4.17 G		1040	.008		.90	.35		1.25	1.57
0100	2" thick, R5.56 G		1040	.008		1.16	.35		1.51	1.86
0110	Fiberboard high density, 1/2" thick, R1.3 G		1300	.006		.27	.28		.55	.76
0120	1" thick, R2.5 G		1040	.008		.57	.35		.92	1.21
0130	1-1/2" thick, R3.8 G		1040	.008		.84	.35		1.19	1.50
0200	Fiberglass, 3/4" thick, R2.78 G		1300	.006		.62	.28		.90	1.14
0400	15/16" thick, R3.70 G		1300	.006		.82	.28		1.10	1.36
0460	1-1/16" thick, R4.17 G		1300	.006		1.08	.28		1.36	1.65
0600	1-5/16" thick, R5.26 G		1300	.006		1.43	.28		1.71	2.03
0650	2-1/16" thick, R8.33 G		1040	.008		1.60	.35		1.95	2.34
0700	2-7/16" thick, R10 G		1040	.008		1.73	.35		2.08	2.48
0800	Gypsum cover board, fiberglass mat facer, 1/4" thick		1400	.006		.48	.26		.74	.96
0810	1/2" thick		1300	.006		.59	.28		.87	1.11
0820	5/8" thick		1200	.007		.62	.30		.92	1.18
0830	Primed fiberglass mat facer, 1/4" thick		1400	.006		.50	.26		.76	.98
0840	1/2" thick		1300	.006		.58	.28		.86	1.10
0850	5/8" thick		1200	.007		.61	.30		.91	1.17
1650	Perlite, 1/2" thick, R1.32 G		1365	.006		.27	.26		.53	.74
1655	3/4" thick, R2.08 G		1040	.008		.38	.35		.73	1
1660	1" thick, R2.78 G		1040	.008		.55	.35		.90	1.19
1670	1-1/2" thick, R4.17 G		1040	.008		.81	.35		1.16	1.47
1680	2" thick, R5.56 G		910	.009		1.10	.40		1.50	1.87
1685	2-1/2" thick, R6.67 G		910	.009		1.45	.40		1.85	2.26
1690	Tapered for drainage G		1040	.008	B.F.	1.05	.35		1.40	1.74
1700	Polyisocyanurate, 2#/C.F. density, 3/4" thick G		1950	.004	S.F.	.50	.18		.68	.86
1705	1" thick G		1820	.004		.44	.20		.64	.81
1715	1-1/2" thick G		1625	.005		.60	.22		.82	1.03
1725	2" thick G		1430	.006		.79	.25		1.04	1.29
1735	2-1/2" thick G		1365	.006		1.02	.26		1.28	1.56
1745	3" thick G		1300	.006		1.12	.28		1.40	1.69
1755	3-1/2" thick G		1300	.006		1.86	.28		2.14	2.51
1765	Tapered for drainage G		1820	.004	B.F.	.52	.20		.72	.90
1900	Extruded polystyrene									
1910	15 psi compressive strength, 1" thick, R5 G	1 Rofc	1950	.004	S.F.	.56	.18		.74	.93
1920	2" thick, R10 G		1625	.005		.73	.22		.95	1.17
1930	3" thick, R15 G		1300	.006		1.46	.28		1.74	2.06
1932	4" thick, R20 G		1300	.006		1.96	.28		2.24	2.62
1934	Tapered for drainage G		1950	.004	B.F.	.51	.18		.69	.87
1940	25 psi compressive strength, 1" thick, R5 G		1950	.004	S.F.	1.12	.18		1.30	1.54
1942	2" thick, R10 G		1625	.005		2.13	.22		2.35	2.71
1944	3" thick, R15 G		1300	.006		3.25	.28		3.53	4.03
1946	4" thick, R20 G		1300	.006		4.48	.28		4.76	5.40
1948	Tapered for drainage G		1950	.004	B.F.	.56	.18		.74	.93
1950	40 psi compressive strength, 1" thick, R5 G		1950	.004	S.F.	.87	.18		1.05	1.27
1952	2" thick, R10 G		1625	.005		1.65	.22		1.87	2.19
1954	3" thick, R15 G		1300	.006		2.39	.28		2.67	3.09
1956	4" thick, R20 G		1300	.006		3.13	.28		3.41	3.91
1958	Tapered for drainage G		1820	.004	B.F.	.87	.20		1.07	1.29

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07 22 Roof and Deck Insulation

07 22 16 – Roof Board Insulation

07 22 16.10 Roof Deck Insulation			Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
1960	60 psi compressive strength, 1" thick, R5	G	1 Rofc	1885	.004	S.F.	1.05	.19		1.24	1.48
1962	2" thick, R10	G		1560	.005		2	.23		2.23	2.58
1964	3" thick, R15	G		1270	.006		3.26	.28		3.54	4.05
1966	4" thick, R20	G		1235	.006		4.04	.29		4.33	4.94
1968	Tapered for drainage	G		1820	.004	B.F.	1.01	.20		1.21	1.44
2010	Expanded polystyrene, 1#/C.F. density, 3/4" thick, R2.89	G		1950	.004	S.F.	.20	.18		.38	.53
2020	1" thick, R3.85	G		1950	.004		.27	.18		.45	.61
2100	2" thick, R7.69	G		1625	.005		.54	.22		.76	.96
2110	3" thick, R11.49	G		1625	.005		.81	.22		1.03	1.26
2120	4" thick, R15.38	G		1625	.005		1.08	.22		1.30	1.56
2130	5" thick, R19.23	G		1495	.005		1.35	.24		1.59	1.89
2140	6" thick, R23.26	G		1495	.005		1.62	.24		1.86	2.18
2150	Tapered for drainage	G		1950	.004	B.F.	.53	.18		.71	.89
2400	Composites with 2" EPS										
2410	1" fiberboard	G	1 Rofc	1325	.006	S.F.	1.47	.27		1.74	2.07
2420	7/16" oriented strand board	G		1040	.008		1.24	.35		1.59	1.94
2430	1/2" plywood	G		1040	.008		1.47	.35		1.82	2.20
2440	1" perlite	G		1040	.008		1.16	.35		1.51	1.86
2450	Composites with 1-1/2" polyisocyanurate										
2460	1" fiberboard	G	1 Rofc	1040	.008	S.F.	1.07	.35		1.42	1.76
2470	1" perlite	G		1105	.007		.94	.33		1.27	1.57
2480	7/16" oriented strand board	G		1040	.008		.85	.35		1.20	1.52
3000	Fastening alternatives, coated screws, 2" long			3744	.002	Ea.	.06	.10		.16	.23
3010	4" long			3120	.003		.11	.12		.23	.31
3020	6" long			2675	.003		.19	.13		.32	.43
3030	8" long			2340	.003		.28	.15		.43	.57
3040	10" long			1872	.004		.47	.19		.66	.84
3050	Pre-drill and drive wedge spike, 2-1/2"			1248	.006		.40	.29		.69	.92
3060	3-1/2"			1101	.007		.58	.33		.91	1.19
3070	4-1/2"			936	.009		.65	.39		1.04	1.36
3075	3" galvanized deck plates			7488	.001		.09	.05		.14	.18
3080	Spot mop asphalt		G-1	295	.190	Sq.	5.80	8	1.74	15.54	21.50
3090	Full mop asphalt		"	192	.292		11.65	12.30	2.67	26.62	36

07 24 Exterior Insulation and Finish Systems

07 24 13 – Polymer-Based Exterior Insulation and Finish System

07 24 13.10 Exterior Insulation and Finish Systems

0010	EXTERIOR INSULATION AND FINISH SYSTEMS										
0095	Field applied, 1" EPS insulation	G	J-1	390	.103	S.F.	1.80	4.63	.35	6.78	9.25
0100	With 1/2" cement board sheathing	G		268	.149		2.59	6.75	.50	9.84	13.45
0105	2" EPS insulation	G		390	.103		2.07	4.63	.35	7.05	9.55
0110	With 1/2" cement board sheathing	G		268	.149		2.86	6.75	.50	10.11	13.75
0115	3" EPS insulation	G		390	.103		2.34	4.63	.35	7.32	9.85
0120	With 1/2" cement board sheathing	G		268	.149		3.13	6.75	.50	10.38	14.05
0125	4" EPS insulation	G		390	.103		2.61	4.63	.35	7.59	10.15
0130	With 1/2" cement board sheathing	G		268	.149		4.19	6.75	.50	11.44	15.20
0140	Premium finish add			1265	.032		.41	1.43	.11	1.95	2.70
0150	Heavy duty reinforcement add			914	.044		.60	1.97	.15	2.72	3.77

07 52 Modified Bituminous Membrane Roofing

07 52 13 – Atactic-Polypropylene-Modified Bituminous Membrane Roofing

	07 52 13.10 APP Modified Bituminous Membrane	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
2350	Granule surface flashing, torched, 180 mils	G-5	1260	.032	S.F.	.96	1.30	.14	2.40	3.39
2400	Fibrated aluminum coating	1 Rofc	3800	.002	↓	.09	.10		.19	.26
2450	Seam heat welding	"	205	.039	L.F.	.09	1.76		1.85	3.03

07 52 16 – Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing

07 52 16.10 SBS Modified Bituminous Membrane

0010	**SBS MODIFIED BITUMINOUS MEMBRANE**									
0080	Mod. bit. rfng., SBS mod, gran surf. cap sheet, poly. reinf.									
0650	120 to 149 mils thick	G-1	2000	.028	S.F.	1.35	1.18	.26	2.79	3.74
0750	150 to 160 mils	"	2000	.028		1.78	1.18	.26	3.22	4.21
1150	For reflective granules, add					.71	1.02	.28	2.01	2.82
1600	Smooth surface cap sheet, mopped, 145 mils	G-1	2100	.027		.83	1.12	.24	2.19	3.05
1620	Lightweight base sheet, fiberglass reinforced, 35 to 47 mil		2100	.027		.29	1.12	.24	1.65	2.46
1625	Heavyweight base/ply sheet, reinforced, 87 to 120 mil thick	↓	2100	.027		.92	1.12	.24	2.28	3.15
1650	Granulated walkpad, 180 to 220 mils	1 Rofc	400	.020		1.85	.90		2.75	3.53
1700	Smooth surface flashing, 145 mils	G-1	1260	.044		.83	1.87	.41	3.11	4.48
1800	150 mils		1260	.044		.51	1.87	.41	2.79	4.13
1900	Granular surface flashing, 150 mils		1260	.044		.73	1.87	.41	3.01	4.37
2000	160 mils	↓	1260	.044		.76	1.87	.41	3.04	4.41
2010	Elastomeric asphalt primer	1 Rofc	2600	.003		.17	.14		.31	.42
2015	Roofing asphalt, 30 lb./square	G-1	19000	.003		.15	.12	.03	.30	.40
2020	Cold process adhesive, 20 to 30 mils thick	1 Rofc	750	.011		.25	.48		.73	1.08
2025	Self adhering vapor retarder, 30 to 45 mils thick	G-5	2150	.019	↓	1.05	.76	.08	1.89	2.52
2050	Seam heat welding	1 Rofc	205	.039	L.F.	.09	1.76		1.85	3.03

07 53 Elastomeric Membrane Roofing

07 53 16 – Chlorosulfonate-Polyethylene Roofing

07 53 16.10 Chlorosulfonated Polyethylene Roofing

0010	**CHLOROSULFONATED POLYETHYLENE ROOFING**									
0800	Chlorosulfonated polyethylene (CSPE)									
0900	45 mils, heat welded seams, plate attachment	G-5	35	1.143	Sq.	241	47	5.20	293.20	350
1100	Heat welded seams, plate attachment and ballasted		26	1.538		257	63	6.95	326.95	395
1200	60 mils, heat welded seams, plate attachment		35	1.143		315	47	5.20	367.20	430
1300	Heat welded seams, plate attachment and ballasted	↓	26	1.538	↓	330	63	6.95	399.95	480

07 53 23 – Ethylene-Propylene-Diene-Monomer Roofing

07 53 23.20 Ethylene-Propylene-Diene-Monomer Roofing

0010	**ETHYLENE-PROPYLENE-DIENE-MONOMER ROOFING (EPDM)**									
3500	Ethylene-propylene-diene-monomer (EPDM), 45 mils, 0.28 psf									
3600	Loose-laid & ballasted with stone (10 psf)	G-5	51	.784	Sq.	91	32	3.55	126.55	157
3700	Mechanically attached		35	1.143		79	47	5.20	131.20	171
3800	Fully adhered with adhesive	↓	26	1.538	↓	113	63	6.95	182.95	237
4500	60 mils, 0.40 psf									
4600	Loose-laid & ballasted with stone (10 psf)	G-5	51	.784	Sq.	108	32	3.55	143.55	176
4700	Mechanically attached		35	1.143		94.50	47	5.20	146.70	188
4800	Fully adhered with adhesive	↓	26	1.538		128	63	6.95	197.95	254
4810	45 mil, 0.28 psf, membrane only					48.50			48.50	53.50
4820	60 mil, 0.40 psf, membrane only					63			63	69
4850	Seam tape for membrane, 3" x 100' roll				Ea.	49.50			49.50	54.50
4900	Batten strips, 10' sections					4.04			4.04	4.44
4910	Cover tape for batten strips, 6" x 100' roll				↓	193			193	212
4930	Plate anchors				M	81.50			81.50	90

07 53 Elastomeric Membrane Roofing

07 53 23 – Ethylene-Propylene-Diene-Monomer Roofing

	07 53 23.20 Ethylene-Propylene-Diene-Monomer Roofing	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
4970	Adhesive for fully adhered systems, 60 S.F./gal.				Gal.	20.50			20.50	23

07 53 29 – Polyisobutylene Roofing

07 53 29.10 Polyisobutylene Roofing

0010	**POLYISOBUTYLENE ROOFING**									
7500	Polyisobutylene (PIB), 100 mils, 0.57 psf									
7600	Loose-laid & ballasted with stone/gravel (10 psf)	G-5	51	.784	Sq.	214	32	3.55	249.55	292
7700	Partially adhered with adhesive		35	1.143		255	47	5.20	307.20	365
7800	Hot asphalt attachment		35	1.143		243	47	5.20	295.20	350
7900	Fully adhered with contact cement	↓	26	1.538	↓	264	63	6.95	333.95	405

07 54 Thermoplastic Membrane Roofing

07 54 19 – Polyvinyl-Chloride Roofing

07 54 19.10 Polyvinyl-Chloride Roofing (PVC)

0010	**POLYVINYL-CHLORIDE ROOFING (PVC)**									
8200	Heat welded seams									
8700	Reinforced, 48 mils, 0.33 psf									
8750	Loose-laid & ballasted with stone/gravel (12 psf)	G-5	51	.784	Sq.	119	32	3.55	154.55	188
8800	Mechanically attached		35	1.143		105	47	5.20	157.20	200
8850	Fully adhered with adhesive	↓	26	1.538	↓	151	63	6.95	220.95	279
8860	Reinforced, 60 mils, 0.40 psf									
8870	Loose-laid & ballasted with stone/gravel (12 psf)	G-5	51	.784	Sq.	121	32	3.55	156.55	190
8880	Mechanically attached		35	1.143		107	47	5.20	159.20	202
8890	Fully adhered with adhesive	↓	26	1.538	↓	153	63	6.95	222.95	281

07 54 23 – Thermoplastic-Polyolefin Roofing

07 54 23.10 Thermoplastic Polyolefin Roofing (T.P.O.)

0010	**THERMOPLASTIC POLYOLEFIN ROOFING (T.P.O.)**									
0100	45 mil, loose laid & ballasted with stone (1/2 ton/sq.)	G-5	51	.784	Sq.	94	32	3.55	129.55	160
0120	Fully adhered		25	1.600		78	65.50	7.25	150.75	203
0140	Mechanically attached		34	1.176		77.50	48	5.35	130.85	172
0160	Self adhered		35	1.143		77.50	47	5.20	129.70	169
0180	60 mil membrane, heat welded seams, ballasted		50	.800		105	33	3.62	141.62	174
0200	Fully adhered		25	1.600		89	65.50	7.25	161.75	215
0220	Mechanically attached		34	1.176		93	48	5.35	146.35	188
0240	Self adhered	↓	35	1.143	↓	105	47	5.20	157.20	199

07 54 30 – Ketone Ethylene Ester Roofing

07 54 30.10 Ketone Ethylene Ester Roofing

0010	**KETONE ETHYLENE ESTER ROOFING**									
0100	Ketone ethylene ester roofing, 50 mil, fully adhered	G-5	26	1.538	Sq.	217	63	6.95	286.95	350
0120	Mechanically attached		35	1.143		140	47	5.20	192.20	238
0140	Ballasted with stone	↓	51	.784		154	32	3.55	189.55	227
0160	50 mil, fleece backed, adhered w/hot asphalt	G-1	26	2.154	↓	160	91	19.75	270.75	350
0180	Accessories, pipe boot	1 Rofc	32	.250	Ea.	27	11.25		38.25	48.50
0200	Pre-formed corners		32	.250	"	9.70	11.25		20.95	29.50
0220	Ketone clad metal, including up to 4 bends	↓	330	.024	S.F.	4.03	1.09		5.12	6.25
0240	Walkway pad	2 Rofc	800	.020	"	4.23	.90		5.13	6.15
0260	Stripping material	1 Rofc	310	.026	L.F.	.96	1.16		2.12	3

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07 65 Flexible Flashing

07 65 10 – Sheet Metal Flashing

	07 65 10.10 Sheet Metal Flashing and Counter Flashing	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**SHEET METAL FLASHING AND COUNTER FLASHING**									
0011	Including up to 4 bends									
0020	Aluminum, mill finish, .013" thick	1 Rofc	145	.055	S.F.	.86	2.49		3.35	5.10
0030	.016" thick		145	.055		1.01	2.49		3.50	5.25
0060	.019" thick		145	.055		1.42	2.49		3.91	5.70
0100	.032" thick		145	.055		1.36	2.49		3.85	5.65
0200	.040" thick		145	.055		2.30	2.49		4.79	6.65
0300	.050" thick		145	.055		2.75	2.49		5.24	7.15
0325	Mill finish 5" x 7" step flashing, .016" thick		1920	.004	Ea.	.15	.19		.34	.48
0350	Mill finish 12" x 12" step flashing, .016" thick		1600	.005	"	.56	.23		.79	1
0400	Painted finish, add				S.F.	.33			.33	.36
1000	Mastic-coated 2 sides, .005" thick	1 Rofc	330	.024		1.83	1.09		2.92	3.83
1100	.016" thick		330	.024		2.02	1.09		3.11	4.04
1600	Copper, 16 oz. sheets, under 1000 lb.		115	.070		8.10	3.13		11.23	14.10
1700	Over 4000 lb.		155	.052		8.10	2.33		10.43	12.75
1900	20 oz. sheets, under 1000 lb.		110	.073		10.75	3.28		14.03	17.30
2000	Over 4000 lb.		145	.055		10.20	2.49		12.69	15.40
2200	24 oz. sheets, under 1000 lb.		105	.076		14.75	3.43		18.18	22
2300	Over 4000 lb.		135	.059		14	2.67		16.67	19.85
2500	32 oz. sheets, under 1000 lb.		100	.080		19.60	3.60		23.20	27.50
2600	Over 4000 lb.		130	.062		18.65	2.77		21.42	25
2700	W shape for valleys, 16 oz., 24" wide		100	.080	L.F.	16.25	3.60		19.85	24
5800	Lead, 2.5 lb./S.F., up to 12" wide		135	.059	S.F.	6.20	2.67		8.87	11.25
5900	Over 12" wide		135	.059		3.99	2.67		6.66	8.85
8900	Stainless steel sheets, 32 ga.		155	.052		3.41	2.33		5.74	7.60
9000	28 ga.		155	.052		4.75	2.33		7.08	9.10
9100	26 ga.		155	.052		4.70	2.33		7.03	9
9200	24 ga.		155	.052		5.25	2.33		7.58	9.60
9290	For mechanically keyed flashing, add					40%				
9320	Steel sheets, galvanized, 20 ga.	1 Rofc	130	.062	S.F.	1.20	2.77		3.97	5.95
9322	22 ga.		135	.059		1.26	2.67		3.93	5.85
9324	24 ga.		140	.057		.96	2.57		3.53	5.35
9326	26 ga.		148	.054		.84	2.44		3.28	4.98
9328	28 ga.		155	.052		.72	2.33		3.05	4.67
9340	30 ga.		160	.050		.61	2.25		2.86	4.42
9400	Terne coated stainless steel, .015" thick, 28 ga.		155	.052		8.20	2.33		10.53	12.85
9500	.018" thick, 26 ga.		155	.052		9.15	2.33		11.48	13.90
9600	Zinc and copper alloy (brass), .020" thick		155	.052		10.10	2.33		12.43	15
9700	.027" thick		155	.052		12.50	2.33		14.83	17.60
9800	.032" thick		155	.052		15.80	2.33		18.13	21.50
9900	.040" thick		155	.052		20.50	2.33		22.83	26.50

07 65 12 – Fabric and Mastic Flashings

07 65 12.10 Fabric and Mastic Flashing and Counter Flashing

0010	**FABRIC AND MASTIC FLASHING AND COUNTER FLASHING**									
1300	Asphalt flashing cement, 5 gallon				Gal.	9.85			9.85	10.85
4900	Fabric, asphalt-saturated cotton, specification grade	1 Rofc	35	.229	S.Y.	3.26	10.30		13.56	20.50
5000	Utility grade		35	.229		1.48	10.30		11.78	18.80
5300	Close-mesh fabric, saturated, 17 oz./S.Y.		35	.229		2.19	10.30		12.49	19.55
5500	Fiberglass, resin-coated		35	.229		1.12	10.30		11.42	18.40
8500	Shower pan, bituminous membrane, 7 oz.		155	.052	S.F.	1.98	2.33		4.31	6.05

07 65 Flexible Flashing

07 65 26 – Self-Adhering Sheet Flashing

07 65 26.10 Self-Adhering Sheet or Roll Flashing	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010 **SELF-ADHERING SHEET OR ROLL FLASHING**									
0020 Self-adhered flashing, 25 mil cross laminated HDPE, 4" wide	1 Rofc	960	.008	L.F.	.20	.38		.58	.85
0040 6" wide		896	.009		.31	.40		.71	1.01
0060 9" wide		832	.010		.46	.43		.89	1.22
0080 12" wide	▼	768	.010	▼	.61	.47		1.08	1.45

07 71 Roof Specialties

07 71 16 – Manufactured Counterflashing Systems

07 71 16.20 Pitch Pockets, Variable Sizes

0010 **PITCH POCKETS, VARIABLE SIZES**									
0100 Adjustable, 4" to 7", welded corners, 4" deep	1 Rofc	48	.167	Ea.	19.50	7.50		27	34
0200 Side extenders, 6"	"	240	.033	"	2.87	1.50		4.37	5.65

07 71 19 – Manufactured Gravel Stops and Fasciae

07 71 19.10 Gravel Stop

0010 **GRAVEL STOP**									
0020 Aluminum, .050" thick, 4" face height, mill finish	1 Shee	145	.055	L.F.	6.55	3.36		9.91	12.35
0080 Duranodic finish		145	.055		7.60	3.36		10.96	13.45
0100 Painted		145	.055		7.60	3.36		10.96	13.45
0300 6" face height		135	.059		7.15	3.61		10.76	13.35
0350 Duranodic finish		135	.059		8	3.61		11.61	14.30
0400 Painted		135	.059		8.85	3.61		12.46	15.20
0600 8" face height		125	.064		7.80	3.90		11.70	14.45
0650 Duranodic finish		125	.064		9.45	3.90		13.35	16.25
0700 Painted		125	.064		9.85	3.90		13.75	16.70
0900 12" face height, .080" thick, 2 piece		100	.080		11.25	4.88		16.13	19.80
0950 Duranodic finish		100	.080		11.10	4.88		15.98	19.60
1000 Painted		100	.080		13.60	4.88		18.48	22.50
1200 Copper, 16 oz., 3" face height		145	.055		25	3.36		28.36	32.50
1300 6" face height		135	.059		34	3.61		37.61	42.50
1350 Galv steel, 24 ga., 4" leg, plain, with continuous cleat, 4" face		145	.055		6.60	3.36		9.96	12.40
1360 6" face height		145	.055		6.70	3.36		10.06	12.50
1500 Polyvinyl chloride, 6" face height		135	.059		5.80	3.61		9.41	11.90
1600 9" face height		125	.064		7	3.90		10.90	13.60
1800 Stainless steel, 24 ga., 6" face height		135	.059		15.60	3.61		19.21	22.50
1900 12" face height		100	.080		23	4.88		27.88	33
2100 20 ga., 6" face height		135	.059		20.50	3.61		24.11	28
2200 12" face height	▼	100	.080	▼	27.50	4.88		32.38	37.50

07 71 19.30 Fascia

0010 **FASCIA**									
0100 Aluminum, reverse board and batten, .032" thick, colored, no furring incl.	1 Shee	145	.055	S.F.	7.15	3.36		10.51	12.95
0300 Steel, galv and enameled, stock, no furring, long panels		145	.055		5.55	3.36		8.91	11.20
0600 Short panels	▼	115	.070	▼	5.25	4.24		9.49	12.25

07 71 23 – Manufactured Gutters and Downspouts

07 71 23.10 Downspouts

0010 **DOWNSPOUTS**									
0020 Aluminum, embossed, .020" thick, 2" x 3"	1 Shee	190	.042	L.F.	.93	2.57		3.50	4.92
0100 Enameled		190	.042		1.37	2.57		3.94	5.40
0300 .024" thick, 2" x 3"		180	.044		2.14	2.71		4.85	6.45
0400 3" x 4"	▼	140	.057	▼	2.14	3.48		5.62	7.65

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	07 71 23.10 Downspouts	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0600	Round, corrugated aluminum, 3" diameter, .020" thick	1 Shee	190	.042	L.F.	2.10	2.57		4.67	6.20
0700	4" diameter, .025" thick		140	.057		3.24	3.48		6.72	8.85
0900	Wire strainer, round, 2" diameter		155	.052	Ea.	1.90	3.15		5.05	6.85
1000	4" diameter		155	.052		2.42	3.15		5.57	7.45
1200	Rectangular, perforated, 2" x 3"		145	.055		2.34	3.36		5.70	7.65
1300	3" x 4"		145	.055		3.35	3.36		6.71	8.80
1500	Copper, round, 16 oz., stock, 2" diameter		190	.042	L.F.	8.50	2.57		11.07	13.25
1600	3" diameter		190	.042		9.05	2.57		11.62	13.85
1800	4" diameter		145	.055		9.75	3.36		13.11	15.85
1900	5" diameter		130	.062		14.85	3.75		18.60	22
2100	Rectangular, corrugated copper, stock, 2" x 3"		190	.042		8.20	2.57		10.77	12.95
2200	3" x 4"		145	.055		9.35	3.36		12.71	15.40
2400	Rectangular, plain copper, stock, 2" x 3"		190	.042		11.35	2.57		13.92	16.40
2500	3" x 4"		145	.055		14.15	3.36		17.51	20.50
2700	Wire strainers, rectangular, 2" x 3"		145	.055	Ea.	17.40	3.36		20.76	24.50
2800	3" x 4"		145	.055		18.20	3.36		21.56	25
3000	Round, 2" diameter		145	.055		7.20	3.36		10.56	13
3100	3" diameter		145	.055		9.20	3.36		12.56	15.20
3300	4" diameter		145	.055		12.10	3.36		15.46	18.40
3400	5" diameter		115	.070		23	4.24		27.24	32
3600	Lead-coated copper, round, stock, 2" diameter		190	.042	L.F.	23	2.57		25.57	29.50
3700	3" diameter		190	.042		23	2.57		25.57	29.50
3900	4" diameter		145	.055		24	3.36		27.36	31.50
4000	5" diameter, corrugated		130	.062		24	3.75		27.75	32
4200	6" diameter, corrugated		105	.076		31.50	4.64		36.14	42
4300	Rectangular, corrugated, stock, 2" x 3"		190	.042		15.15	2.57		17.72	20.50
4500	Plain, stock, 2" x 3"		190	.042		24.50	2.57		27.07	31
4600	3" x 4"		145	.055		34.50	3.36		37.86	43
4800	Steel, galvanized, round, corrugated, 2" or 3" diameter, 28 ga.		190	.042		2.11	2.57		4.68	6.20
4900	4" diameter, 28 ga.		145	.055		2.12	3.36		5.48	7.45
5100	5" diameter, 26 ga.		130	.062		3.65	3.75		7.40	9.70
5400	6" diameter, 28 ga.		105	.076		3.57	4.64		8.21	11
5500	26 ga.		105	.076		3.79	4.64		8.43	11.20
5700	Rectangular, corrugated, 28 ga., 2" x 3"		190	.042		2.23	2.57		4.80	6.35
5800	3" x 4"		145	.055		2.24	3.36		5.60	7.55
6000	Rectangular, plain, 28 ga., galvanized, 2" x 3"		190	.042		4.04	2.57		6.61	8.35
6100	3" x 4"		145	.055		4.37	3.36		7.73	9.90
6300	Epoxy painted, 24 ga., corrugated, 2" x 3"		190	.042		2.46	2.57		5.03	6.60
6400	3" x 4"		145	.055		2.98	3.36		6.34	8.40
6600	Wire strainers, rectangular, 2" x 3"		145	.055	Ea.	17.50	3.36		20.86	24.50
6700	3" x 4"		145	.055		19.40	3.36		22.76	26.50
6900	Round strainers, 2" or 3" diameter		145	.055		4.38	3.36		7.74	9.90
7000	4" diameter		145	.055		6.05	3.36		9.41	11.80
7800	Stainless steel tubing, schedule 5, 2" x 3" or 3" diameter		190	.042	L.F.	89	2.57		91.57	102
7900	3" x 4" or 4" diameter		145	.055		121	3.36		124.36	138
8100	4" x 5" or 5" diameter		135	.059		139	3.61		142.61	159
8200	Vinyl, rectangular, 2" x 3"		210	.038		1.94	2.32		4.26	5.65
8300	Round, 2-1/2"		220	.036		1.40	2.22		3.62	4.91
	07 71 23.20 Downspout Elbows									
0010	**DOWNSPOUT ELBOWS**									
0020	Aluminum, embossed, 2" x 3", .020" thick	1 Shee	100	.080	Ea.	.93	4.88		5.81	8.40
0100	Enameled		100	.080		2.17	4.88		7.05	9.80

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	07 71 23.20 Downspout Elbows	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0200	Embossed, 3" x 4", .025" thick	1 Shee	100	.080	Ea.	2.98	4.88		7.86	10.70
0300	Enameled		100	.080		4	4.88		8.88	11.80
0400	Embossed, corrugated, 3" diameter, .020" thick		100	.080		3.13	4.88		8.01	10.85
0500	4" diameter, .025" thick		100	.080		6.70	4.88		11.58	14.75
0600	Copper, 16 oz., 2" diameter		100	.080		10.15	4.88		15.03	18.55
0700	3" diameter		100	.080		9.95	4.88		14.83	18.35
0800	4" diameter		100	.080		13.90	4.88		18.78	22.50
1000	Rectangular, 2" x 3" corrugated		100	.080		9.50	4.88		14.38	17.85
1100	3" x 4" corrugated		100	.080		15.40	4.88		20.28	24.50
1300	Vinyl, 2-1/2" diameter, 45 or 75 degree bend		100	.080		3.99	4.88		8.87	11.80
1400	Tee Y junction	↓	75	.107	↓	13.10	6.50		19.60	24.50
	07 71 23.30 Gutters									
0010	**GUTTERS**									
0012	Aluminum, stock units, 5" K type, .027" thick, plain	1 Shee	125	.064	L.F.	2.84	3.90		6.74	9
0100	Enameled		125	.064		2.92	3.90		6.82	9.10
0300	5" K type, .032" thick, plain		125	.064		3.59	3.90		7.49	9.85
0400	Enameled		125	.064		3.58	3.90		7.48	9.85
0700	Copper, half round, 16 oz., stock units, 4" wide		125	.064		8.45	3.90		12.35	15.15
0900	5" wide		125	.064		7.20	3.90		11.10	13.85
1000	6" wide		118	.068		11.40	4.13		15.53	18.80
1200	K type, 16 oz., stock, 5" wide		125	.064		8.40	3.90		12.30	15.15
1300	6" wide		125	.064		8.80	3.90		12.70	15.55
1500	Lead coated copper, 16 oz., half round, stock, 4" wide		125	.064		15.75	3.90		19.65	23
1600	6" wide		118	.068		18.65	4.13		22.78	27
1800	K type, stock, 5" wide		125	.064		18.65	3.90		22.55	26.50
1900	6" wide		125	.064		18.85	3.90		22.75	26.50
2100	Copper clad stainless steel, K type, 5" wide		125	.064		7.85	3.90		11.75	14.55
2200	6" wide		125	.064		10.05	3.90		13.95	16.95
2400	Steel, galv, half round or box, 28 ga., 5" wide, plain		125	.064		2.16	3.90		6.06	8.30
2500	Enameled		125	.064		2.23	3.90		6.13	8.35
2700	26 ga., stock, 5" wide		125	.064		2.49	3.90		6.39	8.65
2800	6" wide	↓	125	.064		2.67	3.90		6.57	8.85
3000	Vinyl, O.G., 4" wide	1 Carp	115	.070		1.36	3.59		4.95	6.95
3100	5" wide		115	.070		1.64	3.59		5.23	7.25
3200	4" half round, stock units	↓	115	.070	↓	1.43	3.59		5.02	7
3250	Joint connectors				Ea.	3.06			3.06	3.37
3300	Wood, clear treated cedar, fir or hemlock, 3" x 4"	1 Carp	100	.080	L.F.	11.20	4.13		15.33	18.60
3400	4" x 5"	"	100	.080	"	22	4.13		26.13	30.50
5000	Accessories, end cap, K type, aluminum 5"	1 Shee	625	.013	Ea.	.74	.78		1.52	1.99
5010	6"		625	.013		1.52	.78		2.30	2.85
5020	Copper, 5"		625	.013		3.45	.78		4.23	4.98
5030	6"		625	.013		3.67	.78		4.45	5.20
5040	Lead coated copper, 5"		625	.013		13.05	.78		13.83	15.55
5050	6"		625	.013		13.95	.78		14.73	16.55
5060	Copper clad stainless steel, 5"		625	.013		3.55	.78		4.33	5.10
5070	6"		625	.013		3.55	.78		4.33	5.10
5080	Galvanized steel, 5"		625	.013		1.50	.78		2.28	2.83
5090	6"	↓	625	.013		2.59	.78		3.37	4.03
5100	Vinyl, 4"	1 Carp	625	.013		6.40	.66		7.06	8.05
5110	5"	"	625	.013		6.75	.66		7.41	8.45
5120	Half round, copper, 4"	1 Shee	625	.013		4.62	.78		5.40	6.30
5130	5"	↓	625	.013	↓	4.95	.78		5.73	6.65

07 71 Roof Specialties

07 71 23 – Manufactured Gutters and Downspouts

	07 71 23.30 Gutters	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
5140	6"	1 Shee	625	.013	Ea.	8.20	.78		8.98	10.25
5150	Lead coated copper, 5"		625	.013		14.70	.78		15.48	17.40
5160	6"		625	.013		22	.78		22.78	25
5170	Copper clad stainless steel, 5"		625	.013		4.85	.78		5.63	6.55
5180	6"		625	.013		4.57	.78		5.35	6.25
5190	Galvanized steel, 5"		625	.013		2.66	.78		3.44	4.11
5200	6"		625	.013		3.31	.78		4.09	4.82
5210	Outlet, aluminum, 2" x 3"		420	.019		.68	1.16		1.84	2.51
5220	3" x 4"		420	.019		1.07	1.16		2.23	2.94
5230	2-3/8" round		420	.019		.62	1.16		1.78	2.44
5240	Copper, 2" x 3"		420	.019		7.75	1.16		8.91	10.25
5250	3" x 4"		420	.019		8.70	1.16		9.86	11.35
5260	2-3/8" round		420	.019		4.76	1.16		5.92	7
5270	Lead coated copper, 2" x 3"		420	.019		26	1.16		27.16	30.50
5280	3" x 4"		420	.019		29.50	1.16		30.66	34.50
5290	2-3/8" round		420	.019		26	1.16		27.16	30.50
5300	Copper clad stainless steel, 2" x 3"		420	.019		7.25	1.16		8.41	9.75
5310	3" x 4"		420	.019		8.25	1.16		9.41	10.85
5320	2-3/8" round		420	.019		4.76	1.16		5.92	7
5330	Galvanized steel, 2" x 3"		420	.019		3.77	1.16		4.93	5.90
5340	3" x 4"		420	.019		5.80	1.16		6.96	8.10
5350	2-3/8" round		420	.019		4.71	1.16		5.87	6.95
5360	K type mitres, aluminum		65	.123		4.89	7.50		12.39	16.80
5370	Copper		65	.123		16	7.50		23.50	29
5380	Lead coated copper		65	.123		55.50	7.50		63	72.50
5390	Copper clad stainless steel		65	.123		27.50	7.50		35	42
5400	Galvanized steel		65	.123		26.50	7.50		34	41
5420	Half round mitres, copper		65	.123		68	7.50		75.50	86.50
5430	Lead coated copper		65	.123		90.50	7.50		98	111
5440	Copper clad stainless steel		65	.123		57	7.50		64.50	74
5450	Galvanized steel		65	.123		32	7.50		39.50	46.50
5460	Vinyl mitres and outlets		65	.123		10.80	7.50		18.30	23.50
5470	Sealant		940	.009	L.F.	.01	.52		.53	.80
5480	Soldering		96	.083	"	.27	5.10		5.37	8

07 71 23.35 Gutter Guard

0010	**GUTTER GUARD**									
0020	6" wide strip, aluminum mesh	1 Carp	500	.016	L.F.	2.54	.83		3.37	4.04
0100	Vinyl mesh	"	500	.016	"	2.88	.83		3.71	4.42

07 71 26 – Reglets

07 71 26.10 Reglets and Accessories

0010	**REGLETS AND ACCESSORIES**									
0020	Reglet, aluminum, .025" thick, in parapet	1 Carp	225	.036	L.F.	1.80	1.84		3.64	4.76
0300	16 oz. copper		225	.036		6.75	1.84		8.59	10.25
0400	Galvanized steel, 24 ga.		225	.036		1.24	1.84		3.08	4.14
0600	Stainless steel, .020" thick		225	.036		3.92	1.84		5.76	7.10
0900	Counter flashing for above, 12" wide, .032" aluminum	1 Shee	150	.053		2.18	3.25		5.43	7.35
1200	16 oz. copper		150	.053		6.25	3.25		9.50	11.85
1300	Galvanized steel, 26 ga.		150	.053		1.26	3.25		4.51	6.35
1500	Stainless steel, .020" thick		150	.053		6.35	3.25		9.60	11.95

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